

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000354

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A47K 10/32, A47K 10/36

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A47K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 29903245 U1 (MATTHIEU, S.), 9 Sept 1999 (09.09.1999), page 1, figure --	1-3,6,8,10, 13,19
X	US 5265509 A (M.-S. CHEN), 30 November 1993 (30.11.1993), column 2 - column 3, figure 2 --	1-3,6,8-10, 13,15
X	WO 02074414 A1 (JUNG, N.-W.), 26 Sept 2002 (26.09.2002), page 2, line 19 - page 3, line 19; page 6, line 3 - line 19, figures --	1,3,8-10,13
X	DE 19937881 A1 (REICHENBERGER, R.), 22 February 2001 (22.02.2001), figures 1,2,7, abstract --	1-3,8,10

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

9 June 2005

Date of mailing of the international search report

14 -06- 2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Teija Rasch / MRO

Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2005/000354

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 20020113163 A1 (A. LAZAR), 22 August 2002 (22.08.2002), page 1, paragraph (0005), (0009), (0010), page 2, paragraph (0026) - (0030), (0033) - page 3, paragraph (0035), paragraph (0039) - (0042), figures --	1,3,8,10,13, 16
X	DE 3922159 A1 (RECHENBERGER, R.), 10 January 1991 (10.01.1991), abstract, figure --	1
X	WO 9304622 A1 (PECH, V.), 18 March 1993 (18.03.1993), abstract, figures --	1
X	EP 0412169 A1 (WATANABE, Y.), 13 February 1991 (13.02.1991), abstract --	8,12,3
A	DE 10147702 A1 (FORM ORGANGE PRODUKTENWICKLUNG), 10 April 2003 (10.04.2003) -- -----	

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE2005/000354

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet).**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

The following separate inventions were identified:

I: Claims 1-5 directed to a paper dispensing device which includes means for spraying the paper with fluid.

.../...

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☒ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE2005/000354

Box No. III

II: Claims 6-7 directed to a paper dispensing device which includes means for perforating the paper.

III: Claims 8-15 directed to a paper dispensing device which includes means for motor driven dispensing of the paper. The invention according to claim 18 relates to a motor driven dispenser which includes a paper magazine that is refillable from below.

IV: Claim 16 directed to a paper for use in accordance with a paper dispensing device including means for the spraying of the paper with fluid. The paper can be used as toilet paper or as napkin or towel. The paper has a solving ability in water which makes it possible to be flushed down in the toilet after use.

A search has been carried out, which relates to the inventions I-IV mentioned above.

The applicant is not invited to pay additional fees for each of the inventions II-IV as listed above.

The present application has been considered to contain 4 inventions which are not linked such that they form a single general inventive concept, as required by Rule 13 PCT for the following reasons:

Claim 1 relates to the problem of wetting a tissue in a dispenser. This problem is solved by a spraying arrangement at the outlet of the paper.

Claim 6 relates to the problem of cutting the paper in a dispenser. This problem is solved by perforating means in a dispenser.

Claim 8 relates to the problem of dispensing the paper in a dispenser. This problem is solved by motor driven dispensing.

Claim 16 relates to a problem of use of a paper in a dispenser, which paper is suitable for using as both toilet and towel paper and which has a solving ability so that it can be flushed down after the use so that only one paper quality is needed. This problem is solved by choosing a paper which has these features.

.../...

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/SE2005/000354

## Box No. III

As both problems and solutions are technically different, no single general concept can be formulated based on the technical features of the inventions. Consequently, the requirements of Rule 13.1 PCT are not met.

It was investigated under Rule 13.2 if any further features, either in the claims or derivable from the description, could be considered as a same or corresponding feature and which could be considered a special technical feature establishing a technical link between the groups II-IV of inventions.

No such features were identified.

Consequently, the II-IV groups of inventions are not so linked as to form a single general inventive concept as required by Rule 13.1 PCT.

**INTERNATIONAL SEARCH REPORT**  
 Information on patent family members

30/04/2005

International application No.

PCT/SE 2005/000354

DE	29903245	U1	09/09/1999	NONE		
US	5265509	A	30/11/1993	NONE		
WO	02074414	A1	26/09/2002	CN	1499994 A	26/05/2004
				JP	2004524913 T	19/08/2004
				KR	2002073975 A	28/09/2002
DE	19937881	A1	22/02/2001	NONE		
US	20020113163	A1	22/08/2002	US	6457434 B	01/10/2002
DE	3922159	A1	10/01/1991	NONE		
WO	9304622	A1	18/03/1993	AU	2493592 A	05/04/1993
EP	0412169	A1	13/02/1991	DE	4090271 C,T	28/03/1996
				GB	2237007 A,B	24/04/1991
				GB	9022961 D	00/00/0000
				JP	1934158 C	26/05/1995
				JP	2134761 U	08/11/1990
				JP	2220620 A	03/09/1990
				JP	6059268 B	10/08/1994
				US	5131302 A	21/07/1992
				WO	9009755 A	07/09/1990
DE	10147702	A1	10/04/2003	WO	03028515 A	10/04/2003